

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

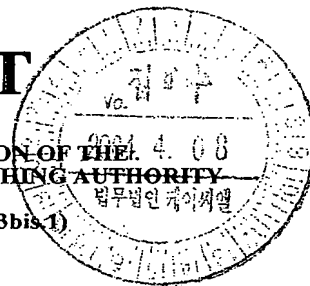
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**PCT**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)



Date of mailing  
(day/month/year) 31 MARCH 2004 (31.03.2004)

Applicant's or agent's file reference  
OF04P007

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.

**PCT/KR2004/000178**

International filing date (day/month/year)

31 JANUARY 2004 (31.01.2004)

Priority date(day/month/year)

International Patent Classification (IPC) or both national classification and IPC

**IPC7 G09G 3/30**

Applicant

LEADIS TECHNOLOGY, INC. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☒ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/000178

**Box No. I Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
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**Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability**

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application

☐ claims Nos. \_\_\_\_\_

because:

☐ the said international application, or the said claims Nos. \_\_\_\_\_  
relate to the following subject matter which does not require an international preliminary examination (*specify*):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 1,2  
are so unclear that no meaningful opinion could be formed (*specify*):

There is a doubt about the purpose of the present invention because usually the data-, scan-, and precharging-signals are applied synchronously using the synchronous signal derived from the display signal. There, the purpose of present invention is not clear and seems to be redundant.

But, the international search has been carried out and has been based on the constitution of the invention.

☐ the claims, or said claims Nos. \_\_\_\_\_ are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for said claims Nos. \_\_\_\_\_

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form

☐ has not been furnished

☐ does not comply with the standard.

the computer readable form

☐ has not been furnished

☐ does not comply with the standard.

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/000178

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1,2	YES
	Claims	None	NO
Inventive step (IS)	Claims	1,2	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1,2	YES
	Claims	None	NO

**2. Citations and explanations :**

Reference is made to the following documents:

D1 : JP 1985-119685(1985.06.27)

D2 : JP 2000-221476(2000.08.11)

D3 : JP 2001-318659(2001.11.16)

D4 : US 4,823,121(1989.04.18)

1. The present invention relates to synchronizing the application of the scan-, data-, and precharging-signals, especially to the method of delaying the data-signal until the precharging-signal is applied. D1-D4 relate to the driving method of a flat panel display which has the function of precharging, but none of the above documents teach or fairly suggest the synchronization of display- and precharging-signals.

Thus, the subject-matter of Claims 1 and 2 seems to be novel and to have an inventive step required in Article 33(2) and (3) PCT.

2. The present invention suggests the driving method of the display system, so industrial applicability is obvious.

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International application No.

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**Box No. VI Certain documents cited**

**1. Certain published documents (Rule 43bis.1 and 70.10)**

<u>Application No. Patent No.</u>	<u>Publication date (day/month/year)</u>	<u>Filing date (day/month/year)</u>	<u>Priority date (valid claim) (day/month/year)</u>
JP1985-119685	1985.06.27	None	
JP2000-221476	2000.08.11	None	
JP2001-318659	2001.11.16	EP 1128356 US 2003/030616	2001.08.29 2003.02.13
US 4,823,121	1989.08.18	JP1987-89090 DE 3634686 GB 2183385	1987.04.23 1987.04.23 1987.06.03

**2. Non-written disclosures (Rule 43bis.1 and 70.9)**

<u>Kind of non-written disclosure</u>	<u>Date of non-written disclosure (day/month/year)</u>	<u>Date of written disclosure referring to non-written disclosure (day/month/year)</u>